

=> d his ful

(FILE 'HOME' ENTERED AT 15:07:13 ON 28 AUG 2006)

FILE 'HCAPLUS' ENTERED AT 15:08:42 ON 28 AUG 2006

E DEGRADO WILLIAM F/AU
L1 343 SEA ABB=ON ("DEGRADO W F"/AU OR "DEGRADO WILLIAM"/AU OR
"DEGRADO WILLIAM F"/AU OR "DEGRADO WILLIAM FRANK"/AU)
E TEW GREGORY N/AU
L2 110 SEA ABB=ON ("TEW GREG"/AU OR "TEW GREGORY"/AU OR "TEW GREGORY
N"/AU OR "TEW GREGORY NEIL"/AU)
E KLEIN MICHAEL L/AU
L3 560 SEA ABB=ON ("KLEIN MICHAEL L"/AU OR "KLEIN MICHAEL LAWRENCE"/A
U OR "KLEIN MICHAEL LEE"/AU OR "KLEIN MICHAEL LEONARD"/AU)
E LIU DAHUI/AU
L4 39 SEA ABB=ON ("LIU DAHUA"/AU OR "LIU DAHUAN"/AU OR "LIU
DAHUI"/AU OR "LIU DAHWEI"/AU OR "LIU DAHWEI DAVID"/AU)
E YUAN JING/AU
L5 184 SEA ABB=ON "YUAN JING"/AU
E CHOI SUNGWOOK/AU
L6 24 SEA ABB=ON ("CHOI SUNGWOO"/AU OR "CHOI SUNGWOOK"/AU OR "CHOI
SUNGWON"/AU)
L7 1 SEA ABB=ON L1 AND L2 AND L3 AND L4 AND L5 AND L6
SELECT RN L7 1-1

FILE 'REGISTRY' ENTERED AT 15:17:41 ON 28 AUG 2006

L8 57 SEA ABB=ON (108-00-9/BI OR 108-24-7/BI OR 13036-02-7/BI OR
198700-44-6/BI OR 198700-45-7/BI OR 26690-80-2/BI OR 34237-59-7
/BI OR 4097-49-8/BI OR 439948-71-7/BI OR 439948-72-8/BI OR
439948-73-9/BI OR 439948-77-3/BI OR 67385-09-5/BI OR 686779-22-
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766551-69-3/BI OR 766551-70-6/BI OR 766551-72-8/BI OR 766551-74
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766551-97-7/BI OR 766551-98-8/BI OR 766551-99-9/BI OR 766552-00
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766552-04-9/BI OR 766552-05-0/BI OR 766552-06-1/BI OR 766552-07
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766552-11-8/BI OR 766552-12-9/BI OR 79-37-8/BI OR 9005-49-6/BI
OR 98-59-9/BI)

FILE 'HCAPLUS' ENTERED AT 15:17:56 ON 28 AUG 2006

L9 1 SEA ABB=ON L8 AND L7
L10 ANALYZE L9 1-1 CT : 7 TERMS

FILE 'REGISTRY' ENTERED AT 15:35:03 ON 28 AUG 2006

L11 1 SEA ABB=ON 766552-09-4/RN *Requested compd. located in
Inventory Search*

FILE 'HCAPLUS' ENTERED AT 15:36:54 ON 28 AUG 2006

L12 1 SEA ABB=ON L11 *1 cit in dt Plus*

FILE 'REGISTRY' ENTERED AT 15:39:32 ON 28 AUG 2006

L13 STRUCTURE 766552-09-4

FILE 'MARPAT' ENTERED AT 15:39:52 ON 28 AUG 2006

L14 0 SEA SSS SAM L13
L15 1 SEA SSS FUL L13 *1 cit in Marpat*

L16 FILE 'USPATFULL' ENTERED AT 15:41:05 ON 28 AUG 2006
1 SEA ABB=ON L11 *1 cit in US Patfull*

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 28 Aug 2006 VOL 145 ISS 10
FILE LAST UPDATED: 27 Aug 2006 (20060827/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 AUG 2006 HIGHEST RN 904741-41-9
DICTIONARY FILE UPDATES: 27 AUG 2006 HIGHEST RN 904741-41-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE MARPAT

FILE CONTENT: 1961-PRESENT VOL 145 ISS 5 (20060825/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 2006135764 22 JUN 2006
DE 102004058061 08 JUN 2006
EP 1674464 28 JUN 2006
JP 2006156836 15 JUN 2006
WO 2006073589 13 JUL 2006

GB	2421183	21 JUN 2006
FR	2879449	23 JUN 2006
RU	2277091	27 MAY 2006
CA	2488034	19 MAY 2006

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 24 Aug 2006 (20060824/PD)
FILE LAST UPDATED: 24 Aug 2006 (20060824/ED)
HIGHEST GRANTED PATENT NUMBER: US7096505
HIGHEST APPLICATION PUBLICATION NUMBER: US2006191048
CA INDEXING IS CURRENT THROUGH 24 Aug 2006 (20060824/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 24 Aug 2006 (20060824/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2006
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2006

=> d que stat 112

L11 1 SEA FILE=REGISTRY ABB=ON 766552-09-4/RN

L12 1 SEA FILE=HCAPLUS ABB=ON L11

=> d ibib abs hitstr 112

L12 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:802698 HCAPLUS

DOCUMENT NUMBER: 141:314809

TITLE: Facially amphiphilic polymers and oligomers and uses

INVENTOR(S): Degrado, William F.; Liu, Dahui; Tew, Gregory N.;

Klein, Michael L.; Yuan, Jing; Choi, Sungwook

PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA;

Degrado, William, F.; Tew, Gregory, N.; Klein, Michael, L.

SOURCE: PCT Int. Appl., 211 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082634	A2	20040930	WO 2004-US8155	20040317
WO 2004082634	A3	20051110		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004222272	A1	20040930	AU 2004-222272	20040317
CA 2519023	AA	20040930	CA 2004-2519023	20040317
EP 1608313	A2	20051228	EP 2004-749404	20040317
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
US 2006041023	A1	20060223	US 2004-801951	20040317
PRIORITY APPLN. INFO.:			US 2003-455479P	P 20030317
			US 2003-530630P	P 20031219
			US 2004-536980P	P 20040120
			WO 2004-US8155	W 20040317

OTHER SOURCE(S): MARPAT 141:314809

AB The facially amphiphilic polymers and oligomers are used as antimicrobial agents and antidotes for hemorrhagic complications associated with heparin therapy. The design and synthesis of facially amphiphilic polymers and oligomers is discussed. The protocol followed to synthesize example polyamide was a reaction of 0.1 mmol 2,6-Diamino-4-tert-butyl-1-(2-tert-butoxycarbonylaminoethyl)sulfanylbenzene dissolved in 3 mL DMF with isophthaloyl dichloride (0.1 mmol), triethylamine (0.2 mmol) and N,N-dimethylethylenediamine (0.2/n mmol) (sic) while stirring under N for 18 h, after the volume of solvent was reduced to 1 mL, water was added to precipitate the polymer, and deprotected using trifluoroacetic acid (3 mL).

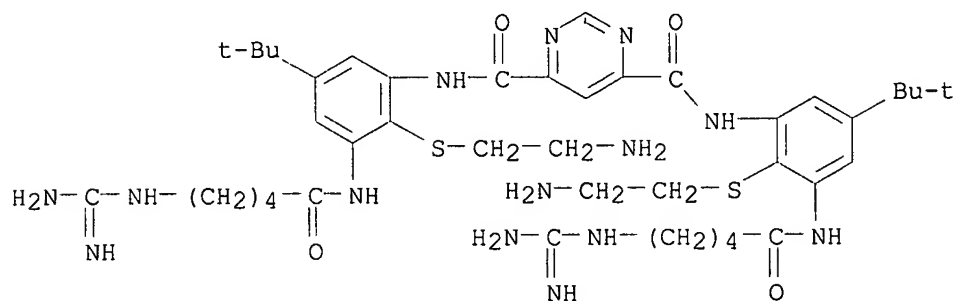
IT 766552-09-4

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

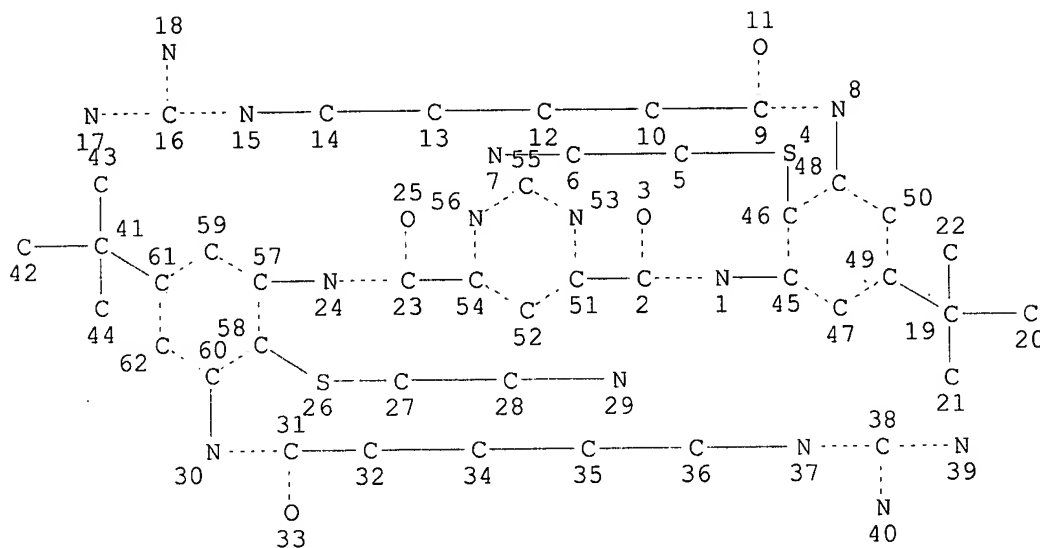
(facially amphiphilic polymers and oligomers for)

RN 766552-09-4 HCAPLUS

CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[5-
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 (9CI) (CA INDEX NAME)



=> d que stat l15
L13 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 62

STEREO ATTRIBUTES: NONE
L15 1 SEA FILE=MARPAT SSS FUL L13

100.0% PROCESSED 340 ITERATIONS
SEARCH TIME: 00.00.02

1 ANSWERS

L15 ANSWER 1 OF 1 MARPAT COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 141:314809 MARPAT
TITLE: Facially amphiphilic polymers and oligomers and uses
INVENTOR(S): Degrado, William F.; Liu, Dahui; Tew, Gregory N.;
Klein, Michael L.; Yuan, Jing; Choi, Sungwook
PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA;
Degrado, William, F.; Tew, Gregory, N.; Klein,
Michael, L.
SOURCE: PCT Int. Appl., 211 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082634	A2	20040930	WO 2004-US8155	20040317
WO 2004082634	A3	20051110		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
 SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
 TD, TG

AU 2004222272 A1 20040930 AU 2004-222272 20040317

CA 2519023 AA 20040930 CA 2004-2519023 20040317

EP 1608313 A2 20051228 EP 2004-749404 20040317

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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US 2006041023 A1 20060223 US 2004-801951 20040317

PRIORITY APPLN. INFO.:

US 2003-455479P 20030317

US 2003-530630P 20031219

US 2004-536980P 20040120

WO 2004-US8155 20040317

AB The facially amphiphilic polymers and oligomers are used as antimicrobial agents and antidotes for hemorrhagic complications associated with heparin therapy. The design and synthesis of facially amphiphilic polymers and oligomers is discussed. The protocol followed to synthesize example polyamide was a reaction of 0.1 mmol 2,6-Diamino-4-tert-butyl-1-(2-tert-butoxycarbonylaminoethyl)sulfanylbenzene dissolved in 3 mL DMF with isophthaloyl dichloride (0.1 mmol), triethylamine (0.2 mmol) and N,N-dimethylethylenediamine (0.2/n mmol) (sic) while stirring under N for 18 h, after the volume of solvent was reduced to 1 mL, water was added to precipitate the polymer, and deprotected using trifluoroacetic acid (3 mL).

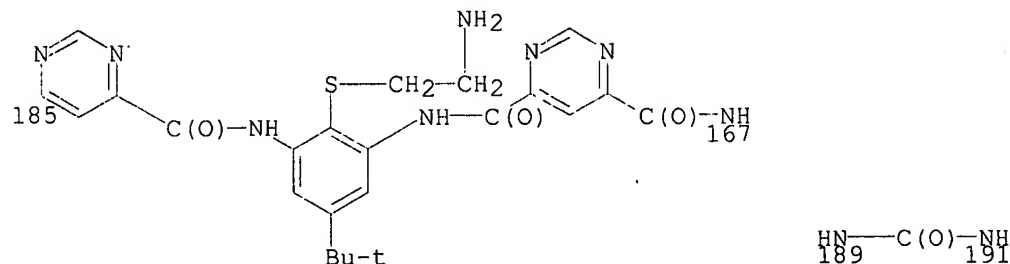
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G1—G2—G3
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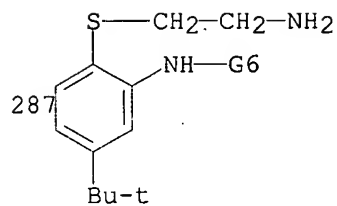
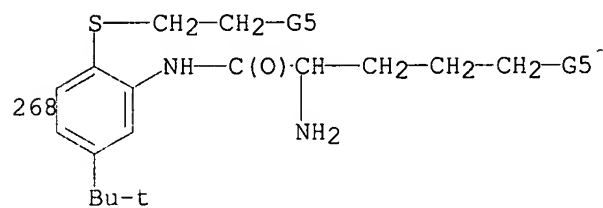
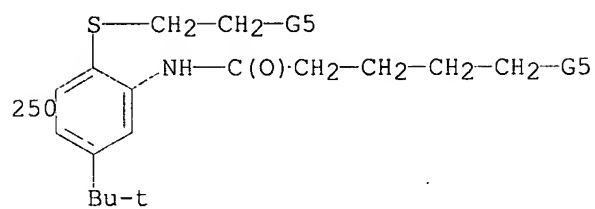
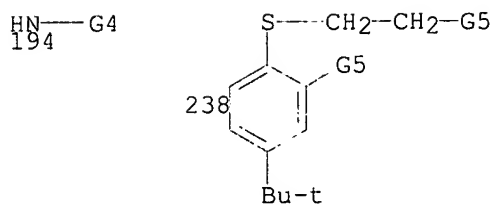
G1 = H / R <"end group"> / (Specifically claimed: 6)

G(O)—NH—G4
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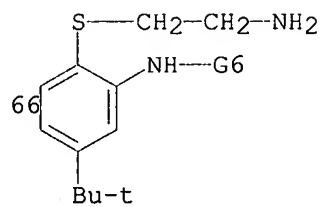
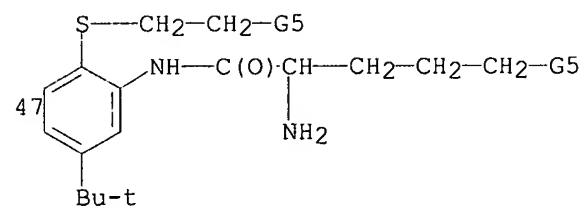
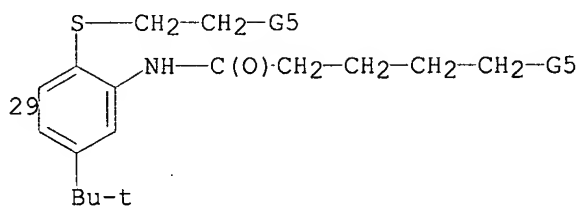
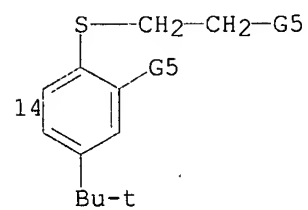
G2 = R <"oligimer"> / (Specifically claimed: G7 / G10 /
 185-1 167-3 / 189-1 191-3 / G11) / (Example: G12)



G3 = H / R <"end group"> / (Specifically claimed: 238 /
 250 / 268 / 287 / 194)

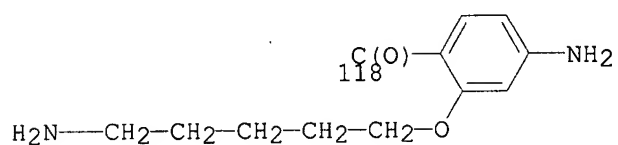
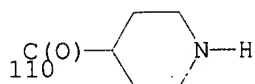
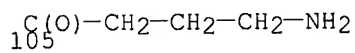
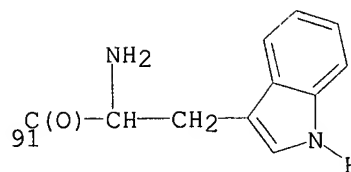
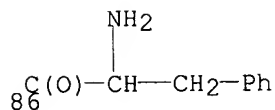
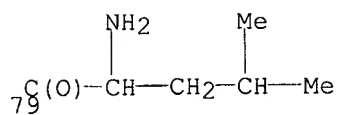


G4 = 14 / 29 / 47 / 66

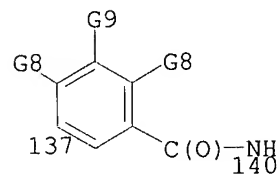


G5 = NH_2 / $\text{NHC}(\text{NH})\text{NH}_2$

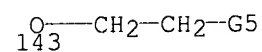
G6 = 79 / 86 / 91 / 105 / 110 / 118



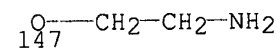
G7 = (1-10) 137-1 140-3



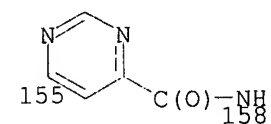
G8 = H / 143



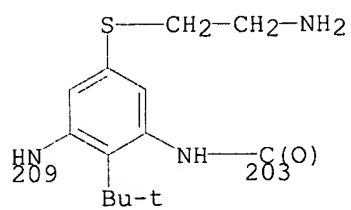
G9 = H / 147



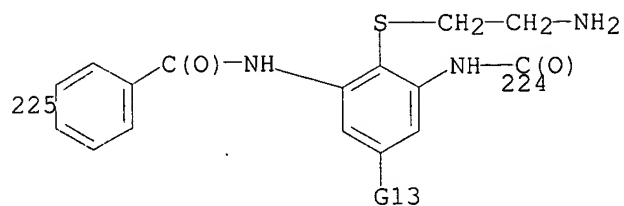
G10 = (1-10) 155-1 158-3



G11 = (1-10) 209-1 203-3



G12 = (1-10) 225-1 224-3



G13 = H / Me / Bu-t

Patent location:

Note:

Note:

claim 1

substitution is restricted

or acceptable salts or solvates

=> d que stat l16

L11 1 SEA FILE=REGISTRY ABB=ON 766552-09-4/RN
L16 1 SEA FILE=USPATFULL ABB=ON L11

=> d ibib abs hitstr l16 1-1

L16 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 2006:47549 USPATFULL

TITLE: Facially amphiphilic polymers and oligomers and uses thereof

INVENTOR(S): DeGrado, William F., Moylan, PA, UNITED STATES
Tew, Gregory N., Amherst, MA, UNITED STATES
Klein, Michael L., Ocean City, NJ, UNITED STATES
Liu, Dahui, Wynnewood, PA, UNITED STATES
Yuan, Jing, Lansdale, PA, UNITED STATES
Choi, Sungwook, Philadelphia, PA, UNITED STATES
PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania,
Philadelphia, PA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2006041023	A1	20060223
APPLICATION INFO.:	US 2004-801951	A1	20040317 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-455479P	20030317 (60)
	US 2003-530630P	20031219 (60)
	US 2004-536980P	20040120 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., WASHINGTON, DC, 20005, US

NUMBER OF CLAIMS: 65

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 21 Drawing Page(s)

LINE COUNT: 5338

CAS INDEXING IS AVAILABLE FOR THIS PATENT..

AB The present invention discloses methods of use of facially amphiphilic polymers and oligomers, including pharmaceutical uses of the polymers and oligomers as antimicrobial agents and antidotes for hemorrhagic complications associated with heparin therapy. The present invention also discloses novel facially amphiphilic polymers and oligomers and their compositions, including pharmaceutical compositions. The present invention further discloses the design and synthesis of facially amphiphilic polymers and oligomers.

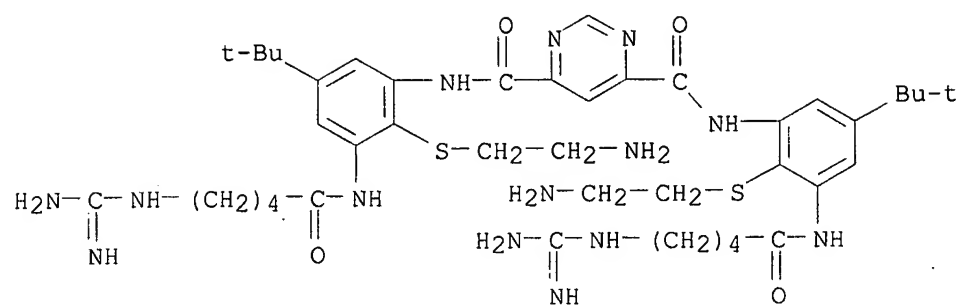
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 766552-09-4

(facially amphiphilic polymers and oligomers for)

RN 766552-09-4 USPATFULL

CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[5-[(aminoiminomethyl)amino]-1-oxopentyl]amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)



=> d,ibib abs hitstr 19 1-1

L9 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:802698 HCAPLUS
 DOCUMENT NUMBER: 141:314809
 TITLE: Facially amphiphilic polymers and oligomers and uses
 INVENTOR(S): Degrado, William F.; Liu, Dahui;
 Tew, Gregory N.; Klein, Michael L.;
 Yuan, Jing; Choi, Sungwook
 PATENT ASSIGNEE(S): The Trustees of the University of Pennsylvania, USA;
 Degrado, William, F.; Tew, Gregory, N.; Klein,
 Michael, L.
 SOURCE: PCT Int. Appl., 211 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004082634	A2	20040930	WO 2004-US8155	20040317
WO 2004082634	A3	20051110		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004222272	A1	20040930	AU 2004-222272	20040317
CA 2519023	AA	20040930	CA 2004-2519023	20040317
EP 1608313	A2	20051228	EP 2004-749404	20040317
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
US 2006041023	A1	20060223	US 2004-801951	20040317
PRIORITY APPLN. INFO.:			US 2003-455479P	P 20030317
			US 2003-530630P	P 20031219
			US 2004-536980P	P 20040120
			WO 2004-US8155	W 20040317

OTHER SOURCE(S): MARPAT 141:314809

AB The facially amphiphilic polymers and oligomers are used as antimicrobial agents and antidotes for hemorrhagic complications associated with heparin therapy. The design and synthesis of facially amphiphilic polymers and oligomers is discussed. The protocol followed to synthesize example polyamide was a reaction of 0.1 mmol 2,6-Diamino-4-tert-butyl-1-(2-tert-butoxycarbonylaminoethyl)sulfanylbenezene dissolved in 3 mL DMF with isophthaloyl dichloride (0.1 mmol), triethylamine (0.2 mmol) and N,N-dimethylethylenediamine (0.2/n mmol) (sic) while stirring under N for 18 h, after the volume of solvent was reduced to 1 mL, water was added to precipitate the polymer, and deprotected using trifluoroacetic acid (3 mL).

IT 766551-72-8 766551-74-0 766551-76-2
 766551-78-4 766551-81-9 766551-83-1
 766551-84-2 766551-86-4 766551-88-6
 766551-89-7 766551-90-0 766551-92-2

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

(assumed monomers; oligomeric; facially amphiphilic polymers and oligomers for)

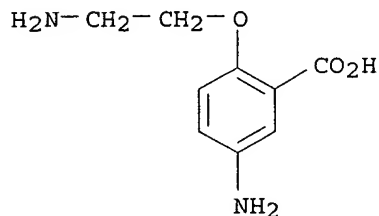
RN 766551-72-8 HCAPLUS

CN L-Leucine, polymer with 5-amino-2-(2-aminoethoxy)benzoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 766551-71-7

CMF C9 H12 N2 O3

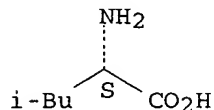


CM 2

CRN 61-90-5

CMF C6 H13 N O2

Absolute stereochemistry. Rotation (+).



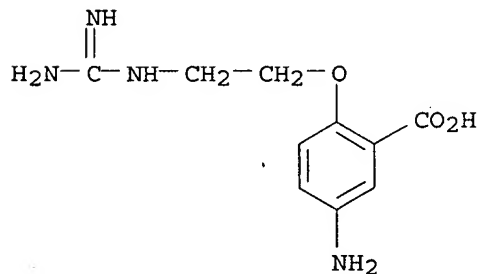
RN 766551-74-0 HCAPLUS

CN L-Leucine, polymer with 5-amino-2-[2-[(aminoiminomethyl)amino]ethoxy]benzoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 766551-73-9

CMF C10 H14 N4 O3

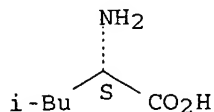


CM 2

CRN 61-90-5

CMF C6 H13 N O2

Absolute stereochemistry. Rotation (+).



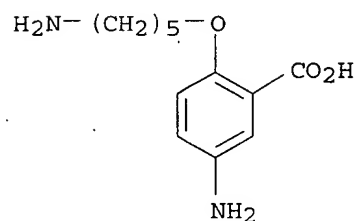
RN 766551-76-2 HCAPLUS

CN L-Leucine, polymer with 5-amino-2-[(5-aminopentyl)oxy]benzoic acid (9CI)
(CA INDEX NAME)

CM 1

CRN 766551-75-1

CMF C12 H18 N2 O3

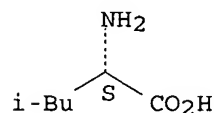


CM 2

CRN 61-90-5

CMF C6 H13 N O2

Absolute stereochemistry. Rotation (+).



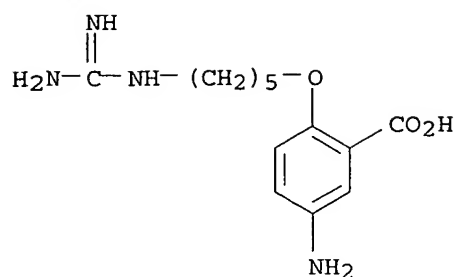
RN 766551-78-4 HCAPLUS

CN L-Leucine, polymer with 5-amino-2-[[5-[(aminoiminomethyl)amino]pentyl]oxy]benzoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 766551-77-3

CMF C13 H20 N4 O3

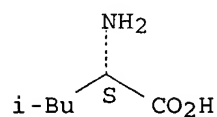


CM 2

CRN 61-90-5

CMF C6 H13 N O2

Absolute stereochemistry. Rotation (+).



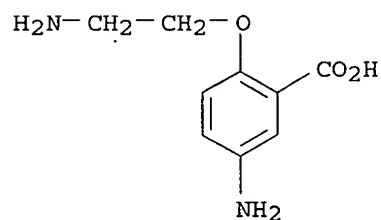
RN 766551-81-9 HCAPLUS

CN Alanine, 2-methyl-, polymer with 5-amino-2-(2-aminoethoxy)benzoic acid
(9CI) (CA INDEX NAME)

CM 1

CRN 766551-71-7

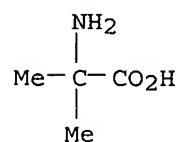
CMF C9 H12 N2 O3



CM 2

CRN 62-57-7

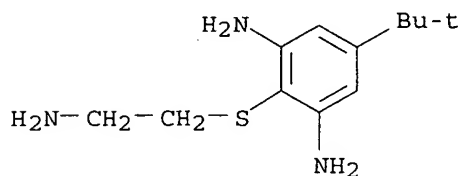
CMF C4 H9 N O2



RN 766551-83-1 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, polymer with 2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)-1,3-benzenediamine (9CI) (CA INDEX NAME)

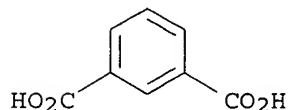
CM 1

CRN 766551-82-0
 CMF C12 H21 N3 S



CM 2

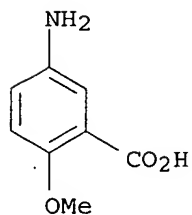
CRN 121-91-5
 CMF C8 H6 O4



RN 766551-84-2 HCAPLUS
 CN L-Arginine, polymer with 5-amino-2-methoxybenzoic acid (9CI) (CA INDEX NAME)

CM 1

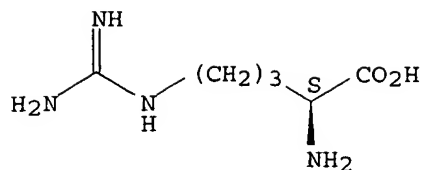
CRN 3403-47-2
 CMF C8 H9 N O3



CM 2

CRN 74-79-3
 CMF C6 H14 N4 O2

Absolute stereochemistry.

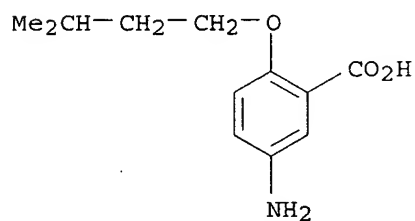


RN 766551-86-4 HCAPLUS
 CN L-Arginine, polymer with 5-amino-2-(3-methylbutoxy)benzoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 766551-85-3

CMF C12 H17 N O3

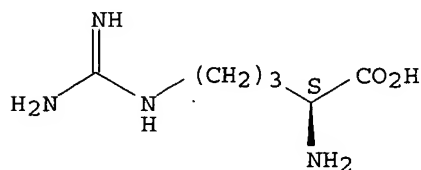


CM 2

CRN 74-79-3

CMF C6 H14 N4 O2

Absolute stereochemistry.

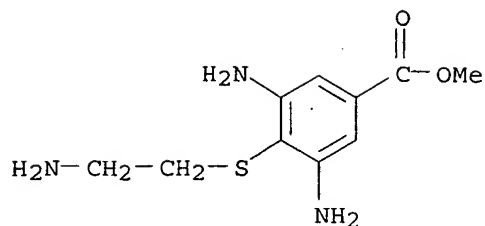


RN 766551-88-6 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, polymer with methyl 3,5-diamino-4-[(2-aminoethyl)thio]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 766551-87-5

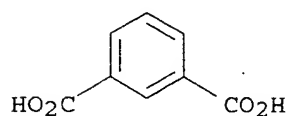
CMF C10 H15 N3 O2 S



CM 2

CRN 121-91-5

CMF C8 H6 O4



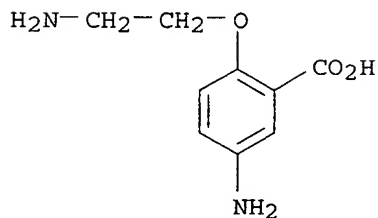
RN 766551-89-7 HCAPLUS

CN L-Valine, polymer with 5-amino-2-(2-aminoethoxy)benzoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 766551-71-7

CMF C9 H12 N2 O3

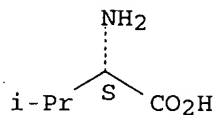


CM 2

CRN 72-18-4

CMF C5 H11 N O2

Absolute stereochemistry. Rotation (+).



RN 766551-90-0 HCAPLUS

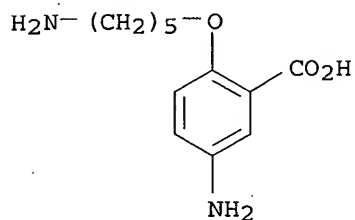
CN L-Norleucine, polymer with 5-amino-2-[(5-aminopentyl)oxy]benzoic acid

(9CI) (CA INDEX NAME)

CM 1

CRN 766551-75-1

CMF C12 H18 N2 O3

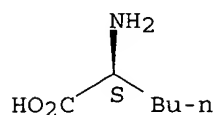


CM 2

CRN 327-57-1

CMF C6 H13 N O2

Absolute stereochemistry. Rotation (+).



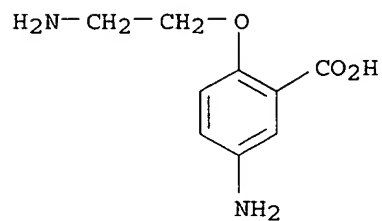
RN 766551-92-2 HCAPLUS

CN L-Phenylalanine, polymer with 5-amino-2-(2-aminoethoxy)benzoic acid (9CI)
(CA INDEX NAME)

CM 1

CRN 766551-71-7

CMF C9 H12 N2 O3

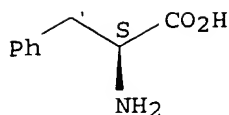


CM 2

CRN 63-91-2

CMF C9 H11 N O2

Absolute stereochemistry. Rotation (-).

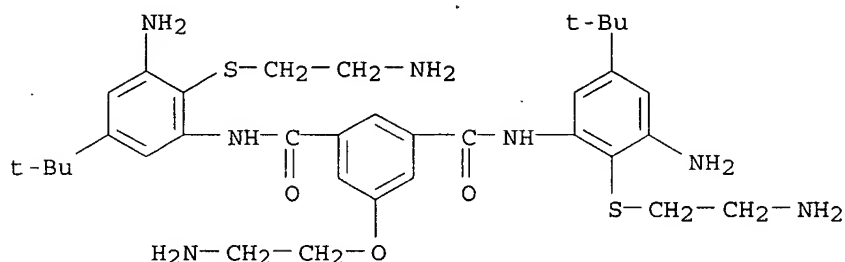


IT 686779-30-6P 686779-31-7P

RL: IMF (Industrial manufacture); PREP (Preparation)
(facially amphiphilic polymers and oligomers for)

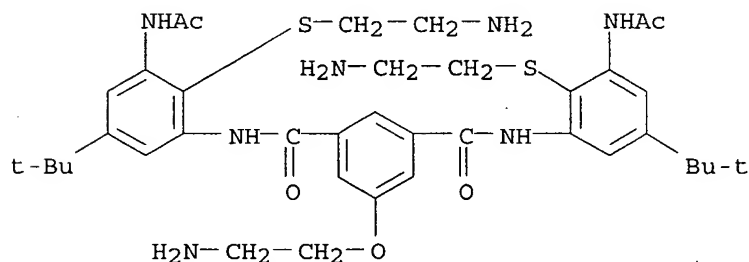
RN 686779-30-6 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]-5-(2-aminoethoxy)- (9CI) (CA INDEX NAME)



RN 686779-31-7 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-(acetamino)-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]-5-(2-aminoethoxy)- (9CI) (CA INDEX NAME)

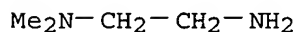


IT 108-00-9DP, N,N-Dimethylethylenediamine, reaction products with polyamide 439948-72-8DP, reaction products with dimethylethylenediamine 439948-73-9DP, reaction products with dimethylethylenediamine

RL: IMF (Industrial manufacture); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(facially amphiphilic polymers and oligomers for)

RN 108-00-9 HCAPLUS

CN 1,2-Ethanediamine, N,N-dimethyl- (9CI) (CA INDEX NAME)



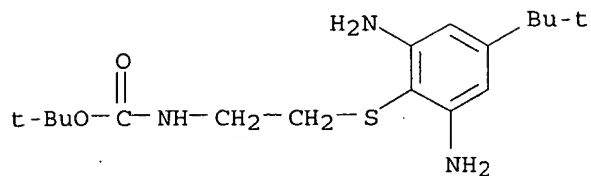
RN 439948-72-8 HCAPLUS

CN Carbamic acid, [2-[[2,6-diamino-4-(1,1-dimethylethyl)phenyl]thio]ethyl]-, 1,1-dimethylethyl ester, polymer with 1,3-benzenedicarbonyl dichloride (9CI) (CA INDEX NAME)

CM 1

CRN 439948-71-7

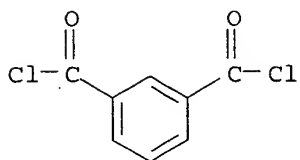
CMF C17 H29 N3 O2 S



CM 2

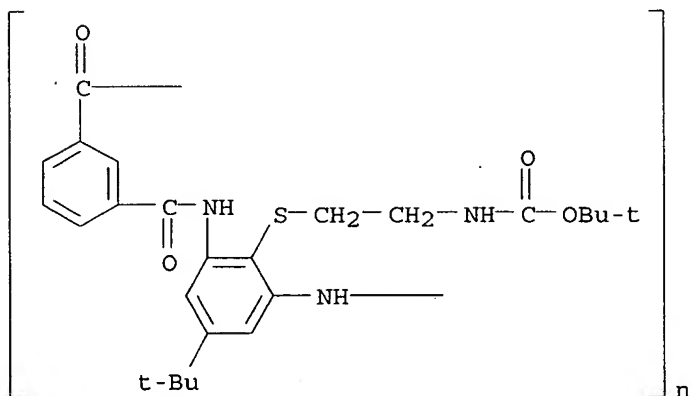
CRN 99-63-8

CMF C8 H4 Cl2 O2



RN 439948-73-9 HCAPLUS

CN Poly[imino[3-[[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethyl]thio]-5-(1,1-dimethylethyl)-1,3-phenylene]iminocarbonyl-1,3-phenylenecarbonyl] (9CI)
(CA INDEX NAME)



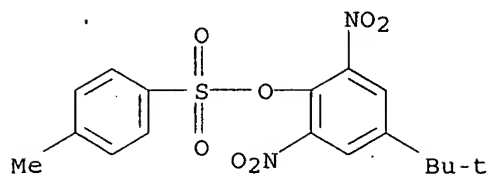
IT 34237-59-7P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(facially amphiphilic polymers and oligomers for)

RN 34237-59-7 HCAPLUS

CN Phenol, 4-(1,1-dimethylethyl)-2,6-dinitro-, 4-methylbenzenesulfonate (ester) (9CI) (CA INDEX NAME)



IT 686779-23-7 766551-69-3 766551-70-6

766551-79-5 766551-80-8 766551-91-1

766551-93-3

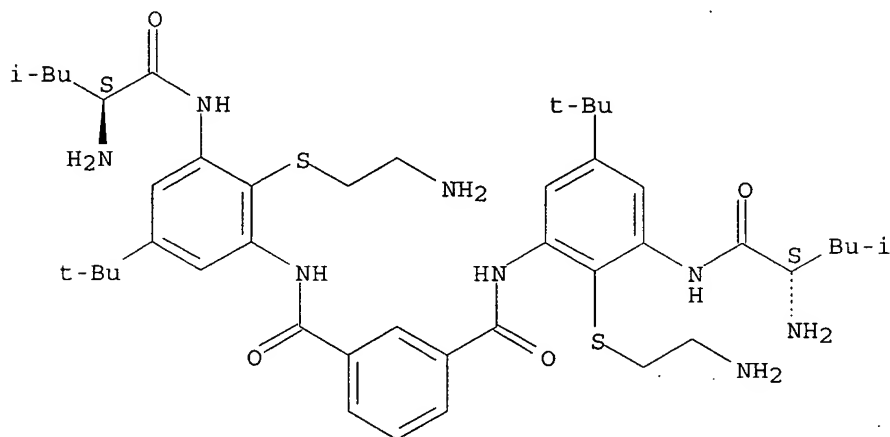
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(facially amphiphilic polymers and oligomers for)

RN 686779-23-7 HCAPLUS

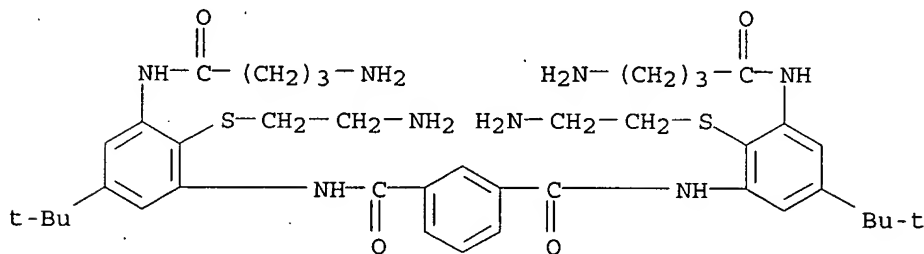
CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[[(2S)-2-amino-4-methyl-1-oxopentyl]amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 766551-69-3 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[(4-amino-1-oxobutyl)amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

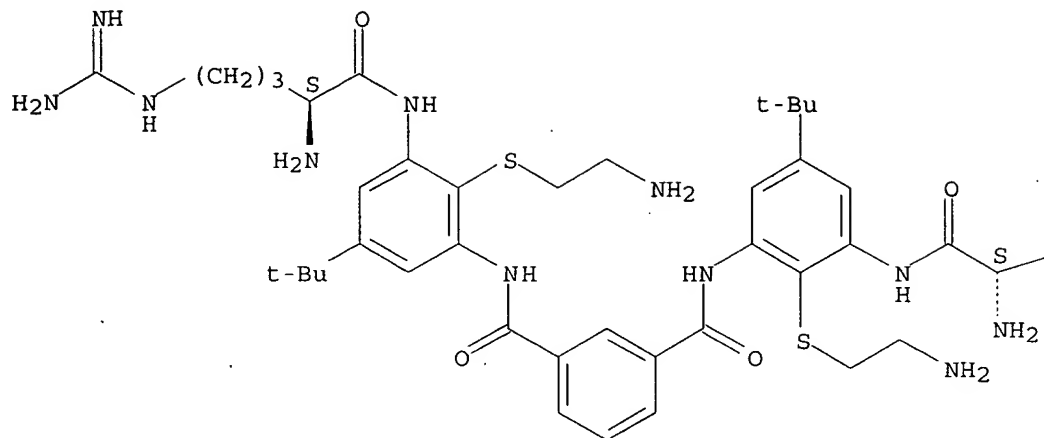


RN 766551-70-6 HCAPLUS

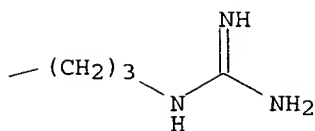
CN 1,3-Benzenedicarboxamide, N,N'-bis[3-[[[(2S)-2-amino-5-[(aminoiminomethyl)amino]-1-oxopentyl]amino]-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



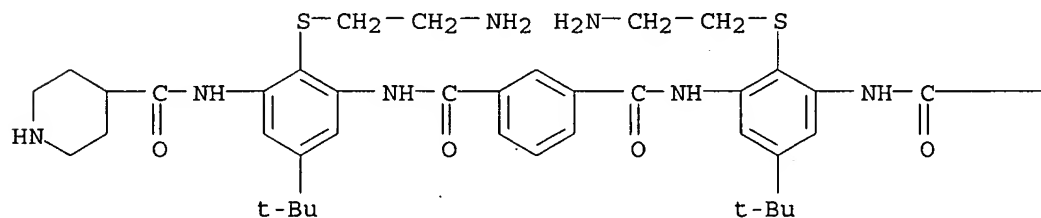
PAGE 1-B



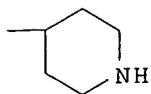
RN 766551-79-5 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)-3-[(4-piperidinylcarbonyl)amino]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



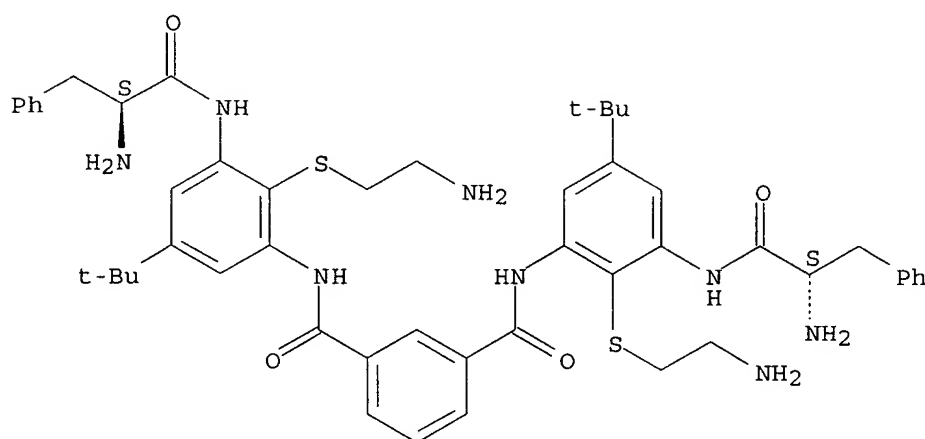
PAGE 1-B



RN 766551-80-8 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[2S)-2-amino-1-oxo-3-phenylpropyl]amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

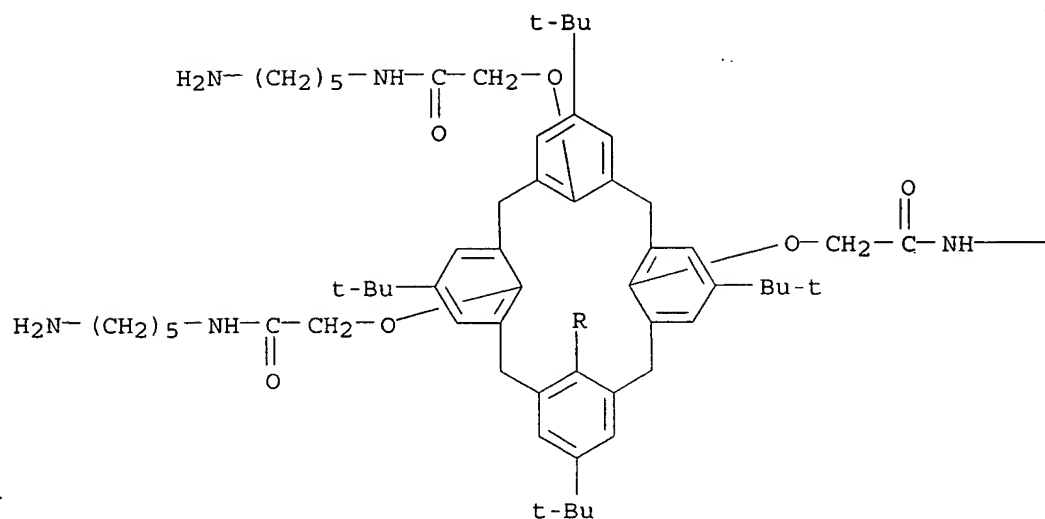
Absolute stereochemistry.



RN 766551-91-1 HCAPLUS

CN Acetamide, 2,2',2'',2'''-[5,11,17,23-tetrakis(1,1-dimethylethyl)pentacyclo[19.3.1.13,7.19,13.115,19]octacos-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaene-25,26,27,28-tetrayl]tetrakis(oxy)]tetrakis[N-(5-aminopentyl)- (9CI) (CA INDEX NAME)

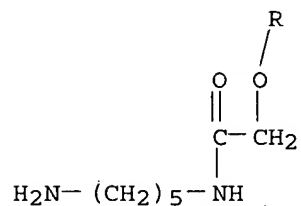
PAGE 1-A



PAGE 1-B

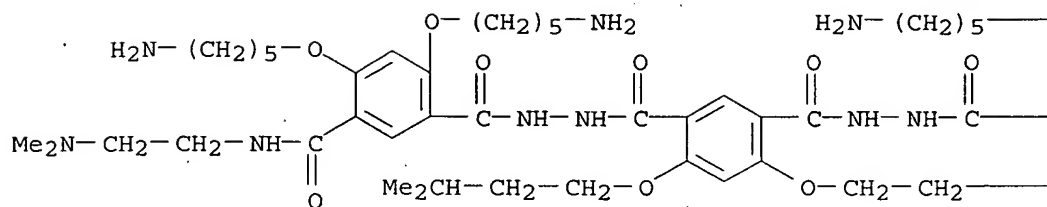
— (CH₂)₅-NH₂

PAGE 2-A

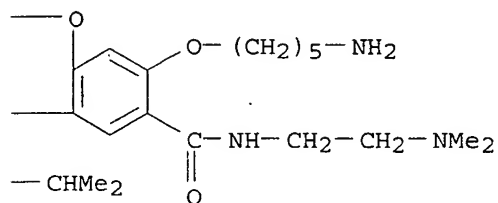


RN 766551-93-3 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 4,6-bis(3-methylbutoxy)-, bis[2-[2,4-bis[(5-aminopentyl)oxy]-5-[[2-(dimethylamino)ethyl]amino]carbo-nyl]benzoyl]hydrazide] (9CI) (CA INDEX NAME)

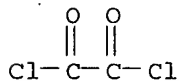
PAGE 1-A



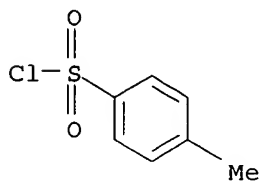
PAGE 1-B



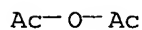
IT 79-37-8, Oxalyl chloride 98-59-9, Tosyl chloride
 108-24-7, Acetic acid anhydride 13036-02-7, Dimethyl
 5-hydroxy isophthalate 26690-80-2, tert-Butyl
 N-(2-hydroxyethyl) carbamate 67385-09-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (facially amphiphilic polymers and oligomers for)
 RN 79-37-8 HCAPLUS
 CN Ethanedioyl dichloride (9CI) (CA INDEX NAME)



RN 98-59-9 HCAPLUS
 CN Benzenesulfonyl chloride, 4-methyl- (9CI) (CA INDEX NAME)

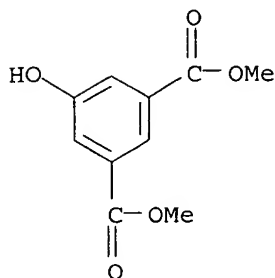


RN 108-24-7 HCAPLUS
 CN Acetic acid, anhydride (9CI) (CA INDEX NAME)



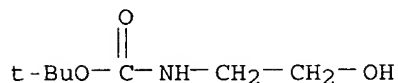
RN 13036-02-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-hydroxy-, dimethyl ester (9CI) (CA INDEX NAME)



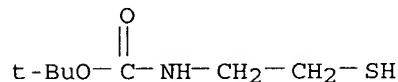
RN 26690-80-2 HCAPLUS

CN Carbamic acid, (2-hydroxyethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 67385-09-5 HCAPLUS

CN Carbamic acid, (2-mercaptoethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

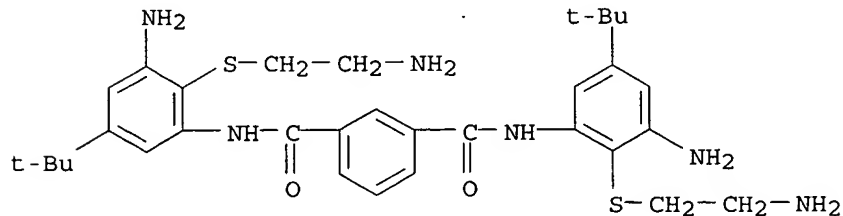


IT 686779-22-6 766551-95-5 766551-96-6
 766551-97-7 766551-98-8 766551-99-9
 766552-00-5 766552-01-6 766552-02-7
 766552-03-8 766552-04-9 766552-05-0
 766552-06-1 766552-07-2 766552-08-3
 766552-09-4 766552-10-7 766552-11-8
 766552-12-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (facially amphiphilic polymers and oligomers for)

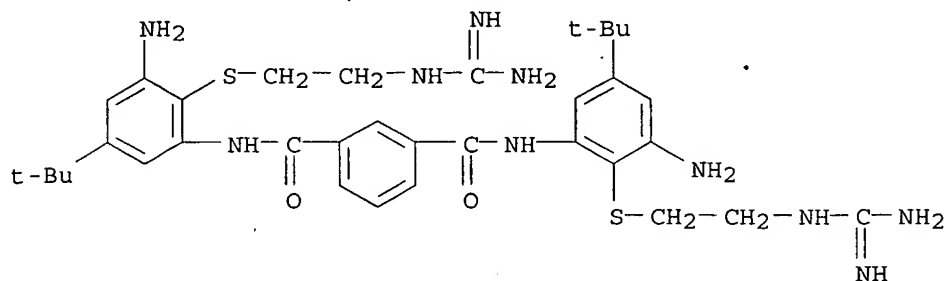
RN 686779-22-6 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)



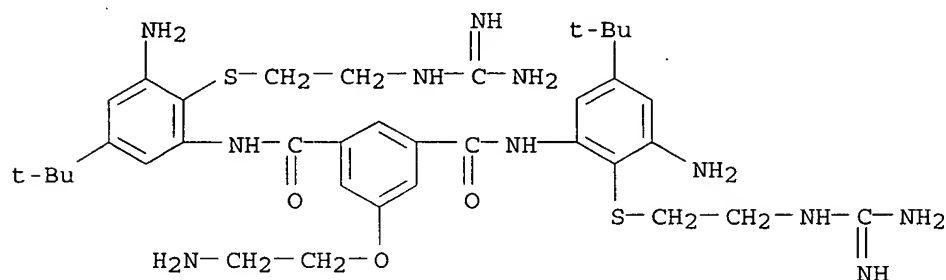
RN .766551-95-5 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-5-(1,1-dimethylethyl)phenyl]- (9CI)
(CA INDEX NAME)



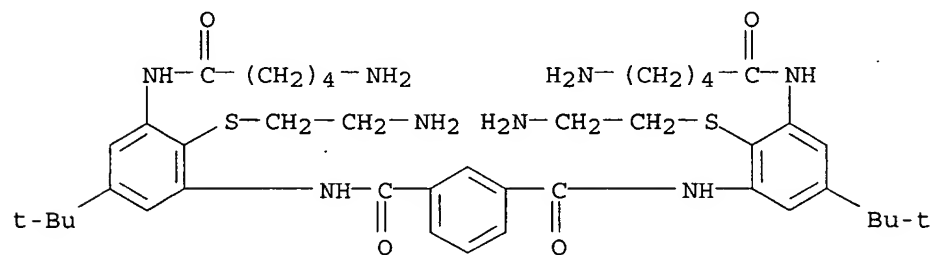
RN 766551-96-6 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-5-(1,1-dimethylethyl)phenyl]-5-(2-aminoethoxy)- (9CI) (CA INDEX NAME)



RN 766551-97-7 HCAPLUS

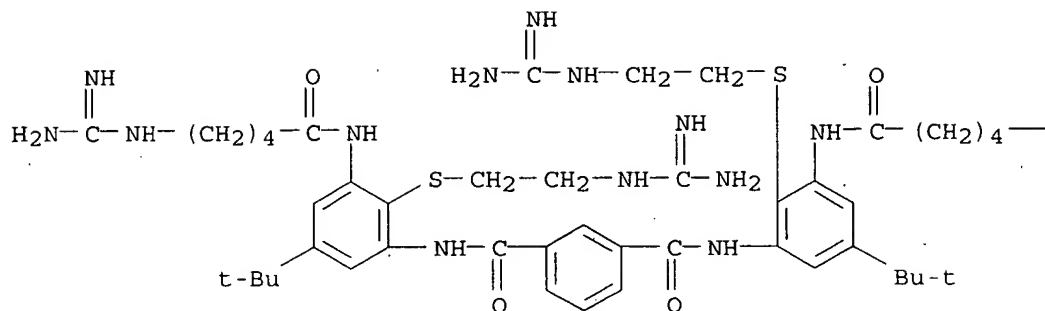
CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[(5-amino-1-oxopentyl)amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)



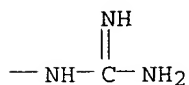
RN 766551-98-8 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-3-[[5-[(aminoiminomethyl)amino]-1-oxopentyl]amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

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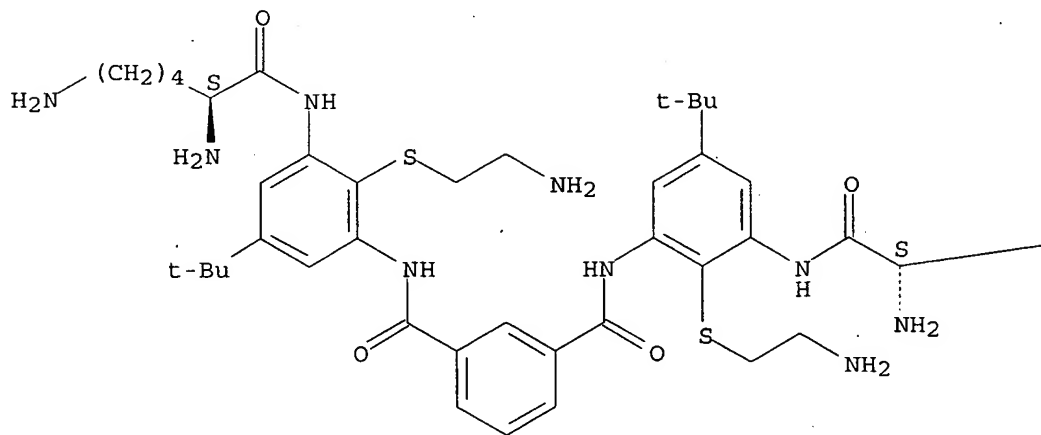


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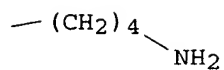
CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[(2S)-2,6-diamino-1-oxohexyl]amino]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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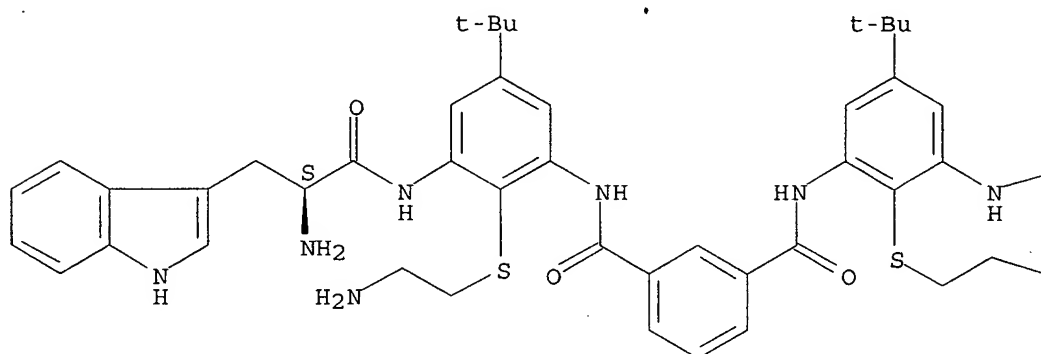


RN 766552-00-5 HCAPLUS

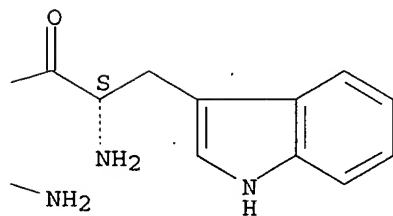
CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[(2S)-2-amino-3-(1H-indol-3-yl)-1-oxopropyl]amino]-5-(1,1-dimethylethyl)phenyl] - (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

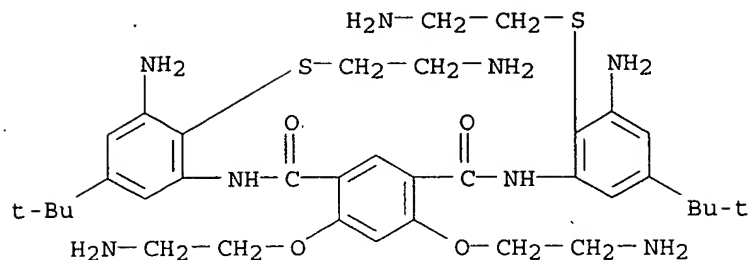


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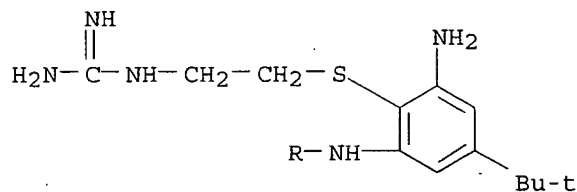
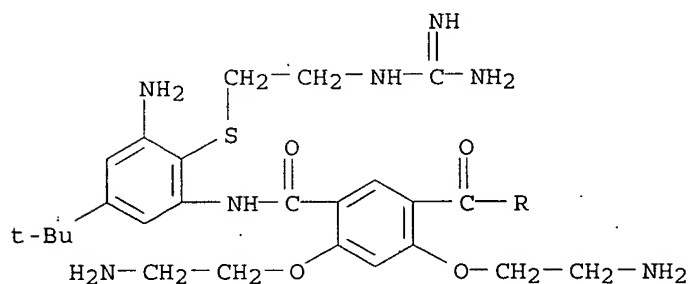
RN 766552-01-6 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]-4,6-bis(2-aminoethoxy) - (9CI) (CA INDEX NAME)



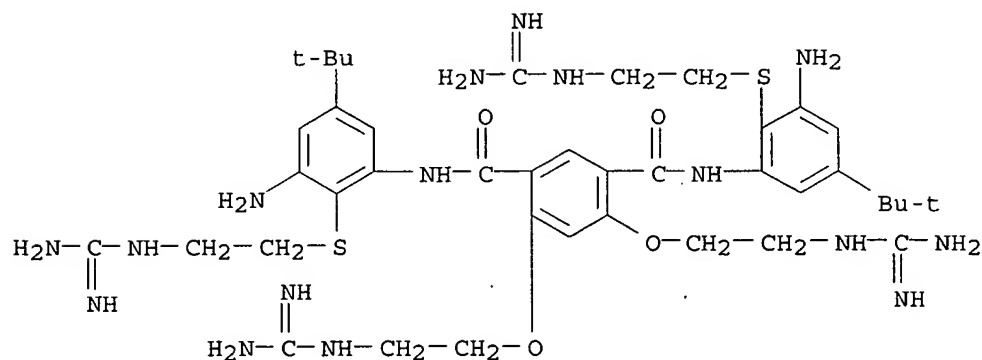
RN 766552-02-7 HCAPLUS

CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-5-(1,1-dimethylethyl)phenyl]-4,6-bis(2-aminoethoxy)- (9CI) (CA INDEX NAME)

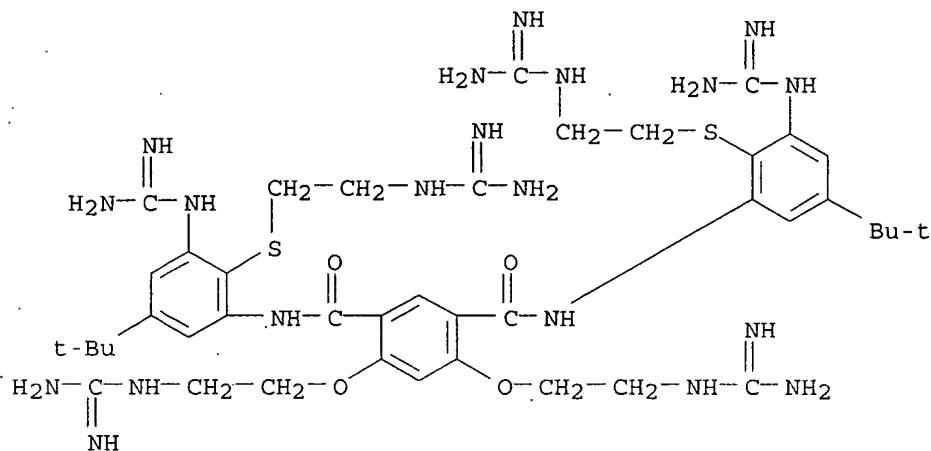


RN 766552-03-8 HCAPLUS

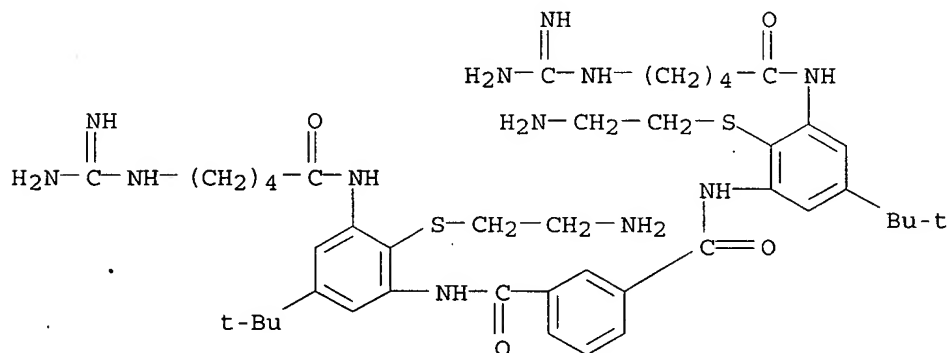
CN 1,3-Benzenedicarboxamide, N,N'-bis[3-amino-2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-5-(1,1-dimethylethyl)phenyl]-4,6-bis[2-[(aminoiminomethyl)amino]ethoxy]- (9CI) (CA INDEX NAME)



CN 1,3-Benzenedicarboxamide, N,N'-bis[3-[(aminoiminomethyl)amino]-2-[[2-[(aminoiminomethyl)amino]ethyl]thio]-5-(1,1-dimethylethyl)phenyl]-4,6-bis[2-[(aminoiminomethyl)amino]ethoxy]-(9CI) (CA INDEX NAME)

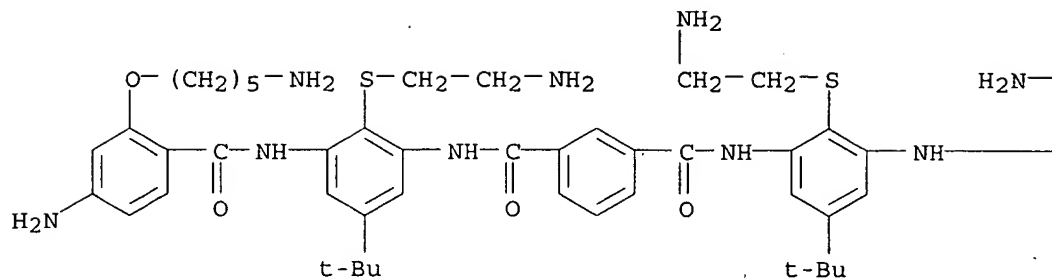


CN 1,3-Benzenedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[5-[(aminoiminomethyl)amino]-1-oxopentyl]amino]-5-(1,1-dimethylethyl)phenyl]-
(9CI) (CA INDEX NAME)

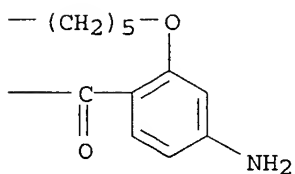


CN 1,3-Benzenedicarboxamide, N,N'-bis[3-[[4-amino-2-[(5-aminopentyl)oxy]benzoyl]amino]-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

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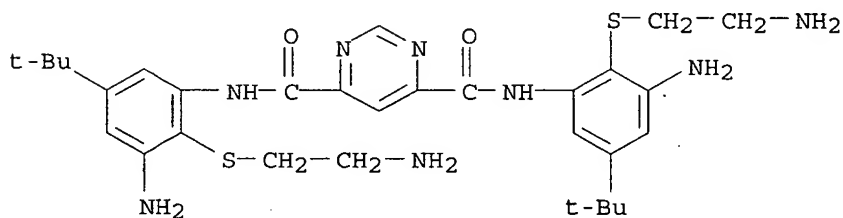


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RN 766552-07-2 HCAPLUS

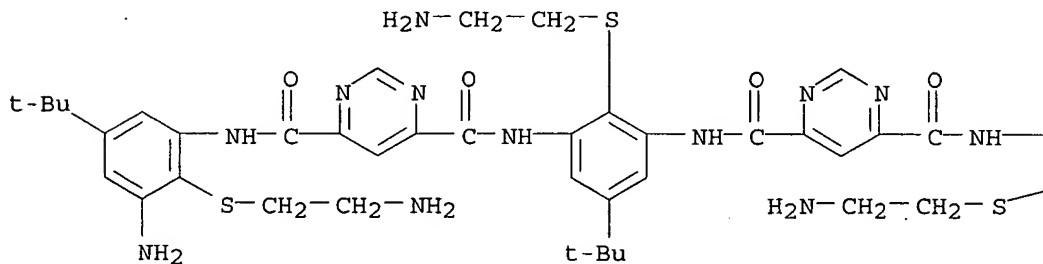
CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)



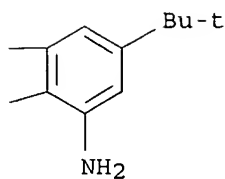
RN 766552-08-3 HCAPLUS

CN 4,6-Pyrimidinedicarboxamide, N,N'-[2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)-1,3-phenylene]bis[N'-[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

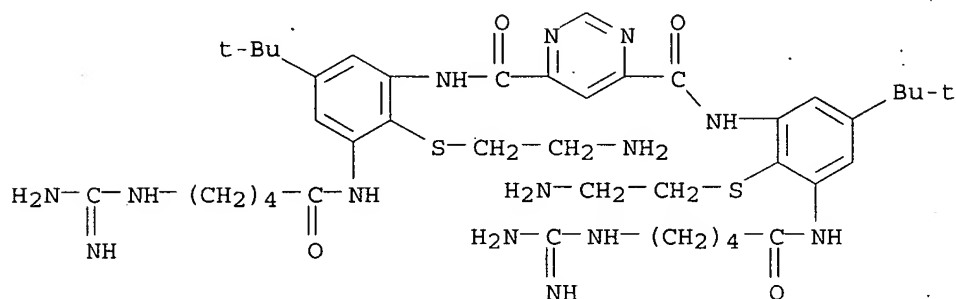
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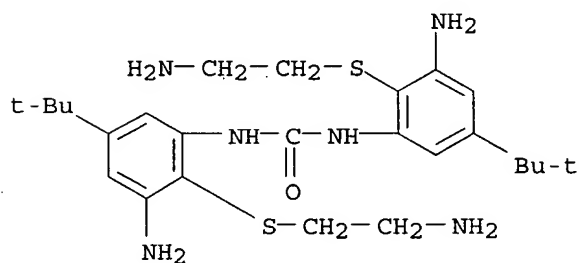
PAGE 1-B



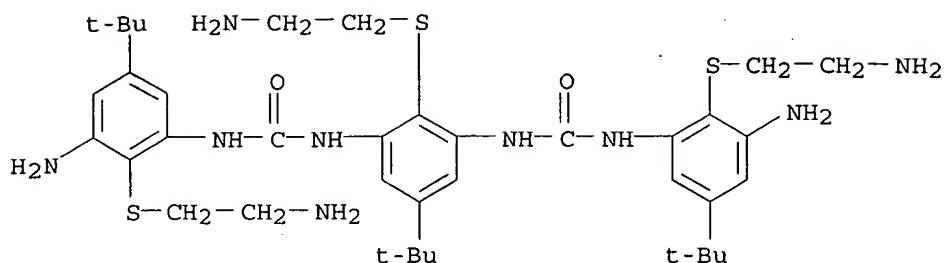
RN 766552-09-4 HCAPLUS
 CN 4,6-Pyrimidinedicarboxamide, N,N'-bis[2-[(2-aminoethyl)thio]-3-[[5-[(aminoiminomethyl)amino]-1-oxopentyl]amino]-5-(1,1-dimethylethyl)phenyl]-(9CI) (CA INDEX NAME)



RN 766552-10-7 HCAPLUS
 CN Urea, N,N'-bis[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]-(9CI) (CA INDEX NAME)



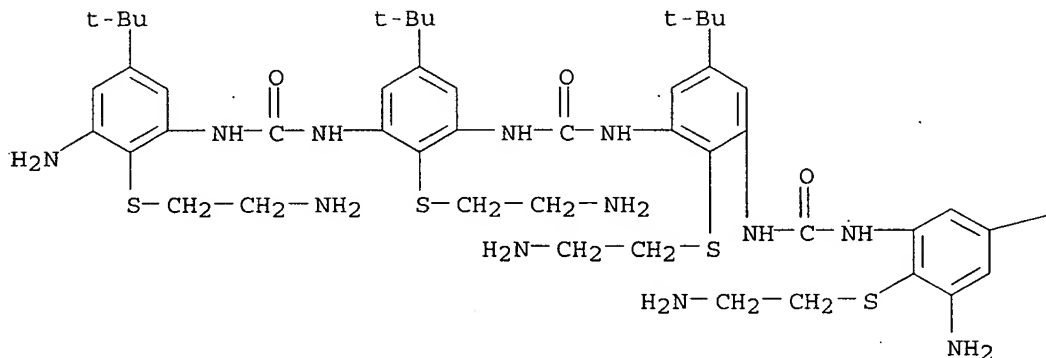
RN 766552-11-8 HCAPLUS
 CN Urea, N,N'-[2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)-1,3-phenylene]bis[N'-[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]-(9CI) (CA INDEX NAME)



RN 766552-12-9 HCAPLUS

CN Urea, N,N'-bis[3-[[[3-amino-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]amino]carbonyl]amino]-2-[(2-aminoethyl)thio]-5-(1,1-dimethylethyl)phenyl]- (9CI) (CA INDEX NAME)

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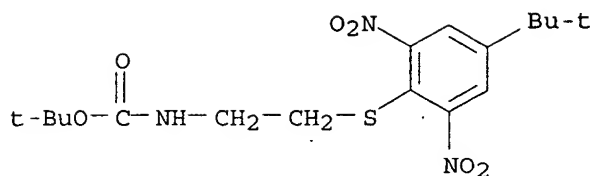
— Bu-t

IT 439948-77-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate reduction; facially amphiphilic polymers and oligomers for)

RN 439948-77-3 HCAPLUS

CN Carbamic acid, [2-[[4-(1,1-dimethylethyl)-2,6-dinitrophenyl]thio]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



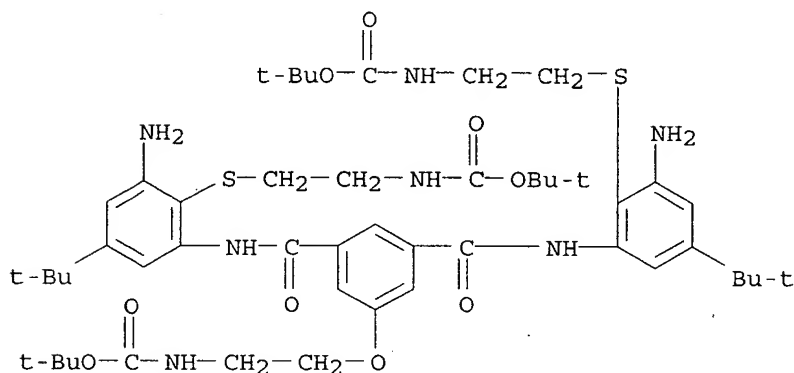
IT 766551-94-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deprotection; facially amphiphilic polymers and oligomers for)

RN 766551-94-4 HCAPLUS

CN Carbamic acid, [[5-[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]-1,3-phenylene]bis[carbonylimino[6-amino-4-(1,1-dimethylethyl)-2,1-phenylene]thio-2,1-ethanediyl]]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



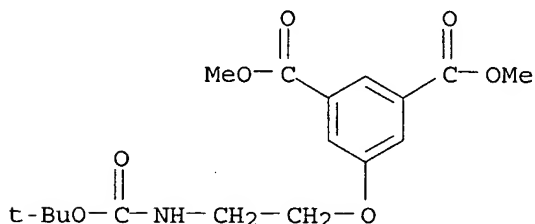
IT 198700-45-7P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrolysis; facially amphiphilic polymers and oligomers for)

RN 198700-45-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]-, dimethyl ester (9CI) (CA INDEX NAME)

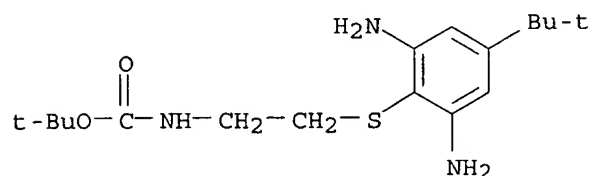


IT 439948-71-7P

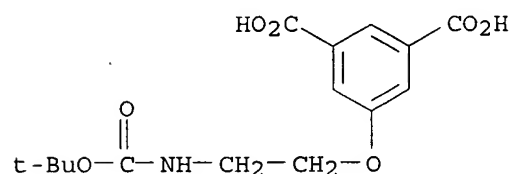
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation and polymerization; facially amphiphilic polymers and oligomers for)

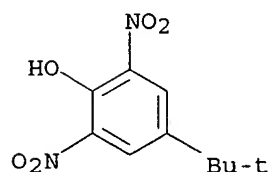
RN 439948-71-7 HCAPLUS
 CN Carbamic acid, [2-[[2,6-diamino-4-(1,1-dimethylethyl)phenyl]thio]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT 198700-44-6P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (reaction with oxalyl chloride; facially amphiphilic polymers and oligomers for)
 RN 198700-44-6 HCAPLUS
 CN 1,3-Benzenedicarboxylic acid, 5-[2-[[[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]- (9CI) (CA INDEX NAME)



IT 4097-49-8, 2,6-Dinitro-4-tert-butylphenol
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction with tosyl chloride; facially amphiphilic polymers and oligomers for)
 RN 4097-49-8 HCAPLUS
 CN Phenol, 4-(1,1-dimethylethyl)-2,6-dinitro- (9CI) (CA INDEX NAME)



IT 9005-49-6, Heparin, biological studies
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (therapy; facially amphiphilic polymers and oligomers for)
 RN 9005-49-6 HCAPLUS
 CN Heparin (8CI, 9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***